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Chemical structure of a phospholamban (PL) ligand. It consists of a C₁₈H₃₇ chain linked to a phosphate group, which is further linked to a 5'-LIGAND-3' sequence. The 5' position is highlighted with a box.

Ligand Component =
fCmGmGrArAfUfCmAmGfUmGmAmAfUmGfCfUfUmAfUmAfCmAfUfCfCmG-3'3'-dT
(VEGF ligand)

FIG. 1A

Chemical structure of Lipid-amide 1:

Chemical name: NX31838

Chemical structure:

Chemical structure of Lipid-amide 1:

Chemical name: NX31838

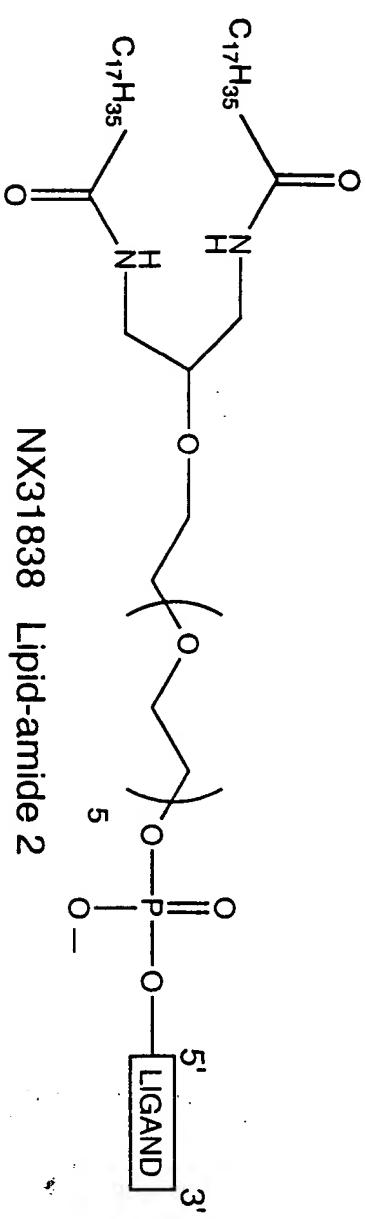
Chemical structure:

Ligand Component = fCmGmGrArAfUfCmAmGfUmGmAmAfUmGfCfUfUmAfCmAfUfCfCmG-3'3'-dT (VEGF ligand)

FIG. 1B

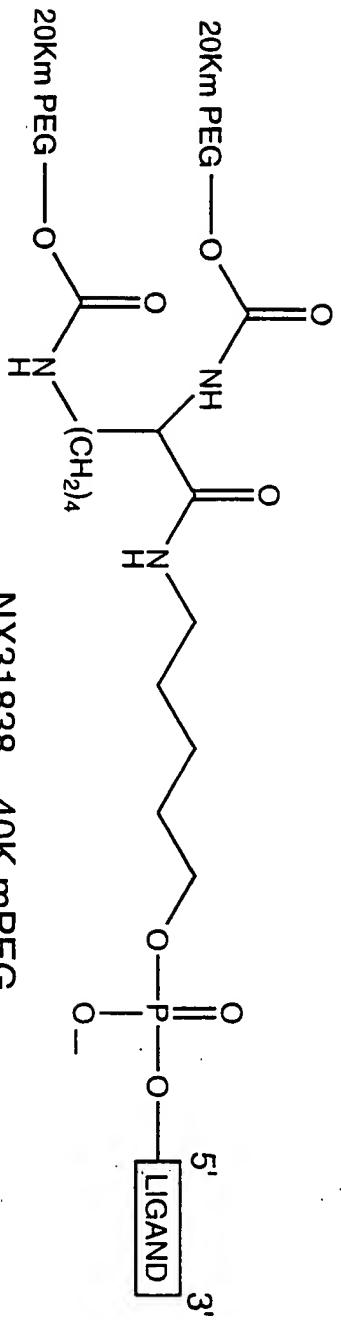
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Ligand Component = fCmGmGrArAfUfCmAmGfUmGmAmAfUmGfCfUmAfCmAfUfCfCmG-3'3'-dT (VEGF ligand)

FIG. 1C



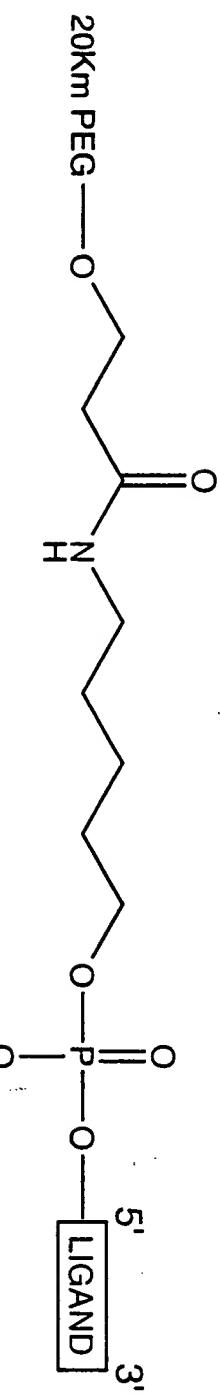
Ligand Component =

fCmGmGrArAfUfcMmAmGfUmGmAmAfUUmGfCfUfUmAfCmAfUfCfCmG-3'3'-dT
(VEGF ligand)

FIG. 1D

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NX31838 20Km PEG

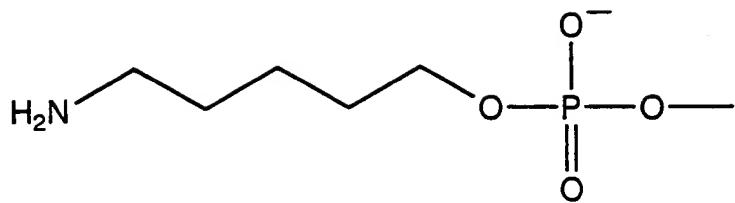
Ligand Component =

fCmGmGrArAfUfCmAmGfUmGmAmAfUmGfCfUfUmAfUmAfCmAfUfCfCmG-3'3'-dT

(VEGF ligand)

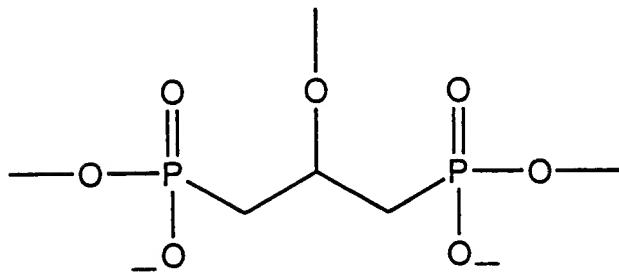
FIG. 1E

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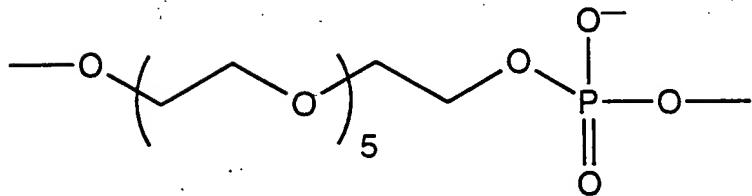
C-5 Amino linker

FIG. 1F



Glycerol bisphosphate

FIG. 1G



18 atom spacer

FIG. 1H

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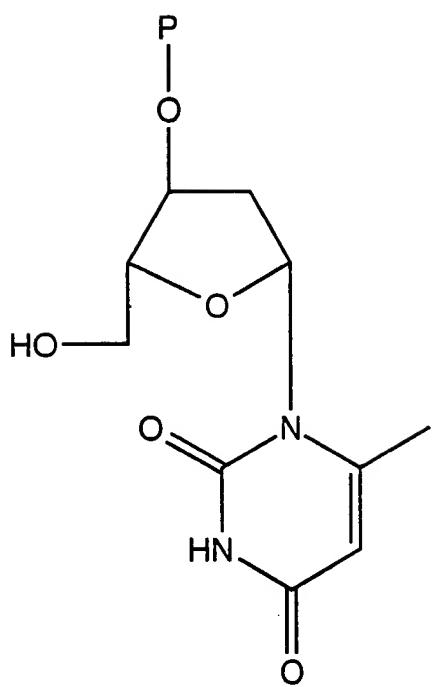


FIG. 1I

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**VEGF Nucleic Acid Ligand
NX31838 Conjugated to
PEG20K and PEG40K:
Plasma Pharmacokinetics in
Sprague Dawley Rats
(dose 1 mg/kg)**

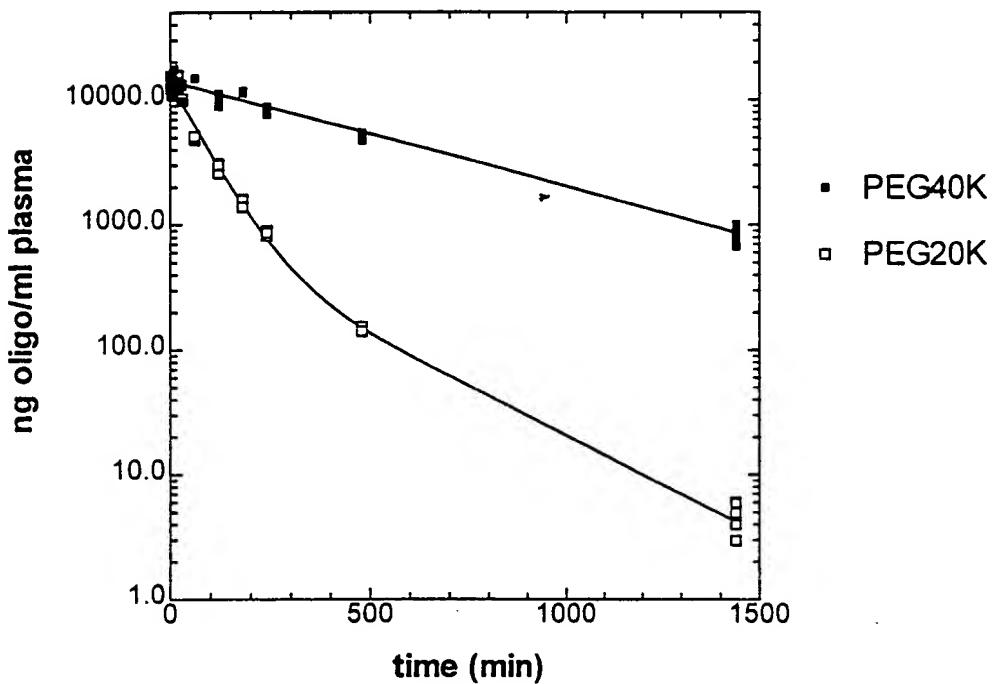


FIGURE 2

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VEGF Nucleic Acid Ligand
NX31838 Conjugated
to PL Lipid;
Plasma Pharmacokinetics
in Sprague Dawley Rats
(dose 1 mg/kg)

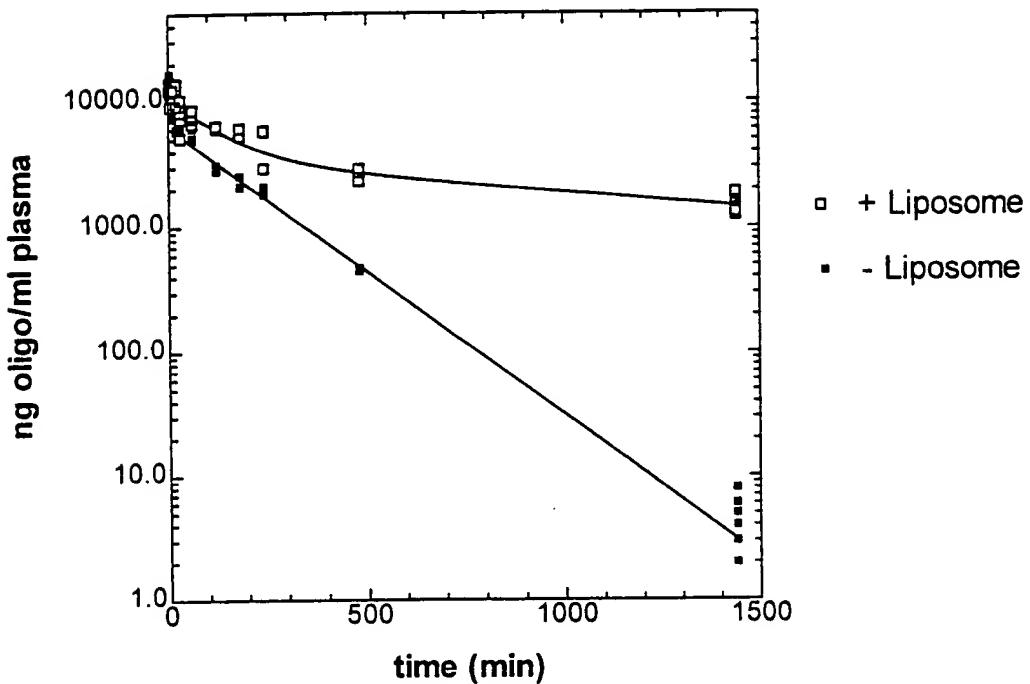


FIGURE 3

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A

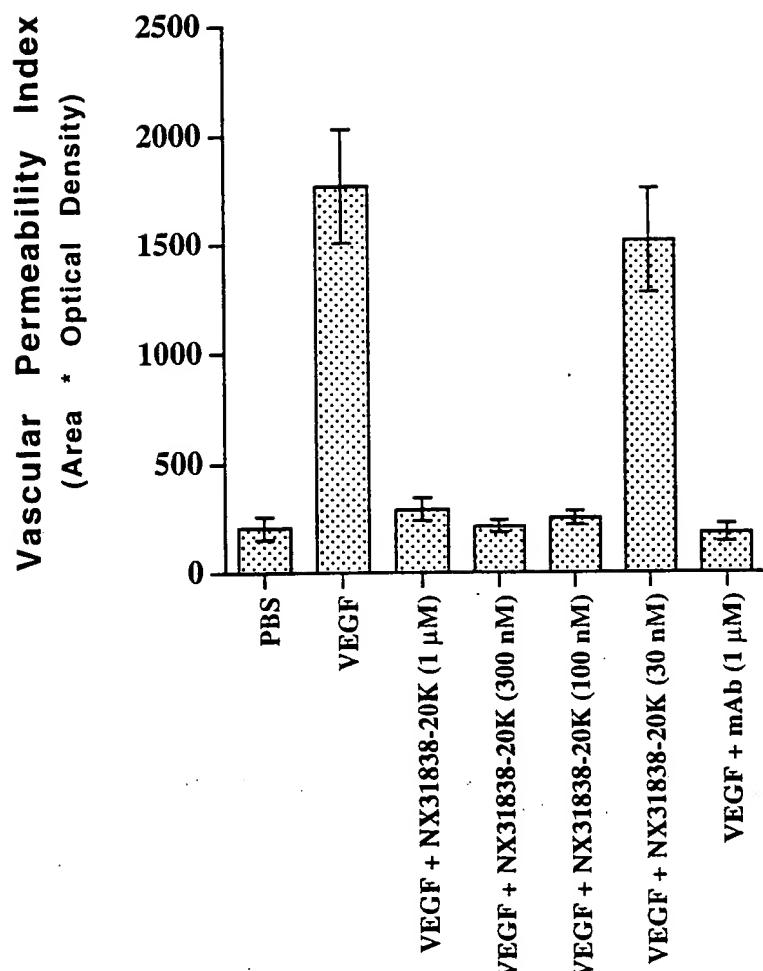


FIG. 4A

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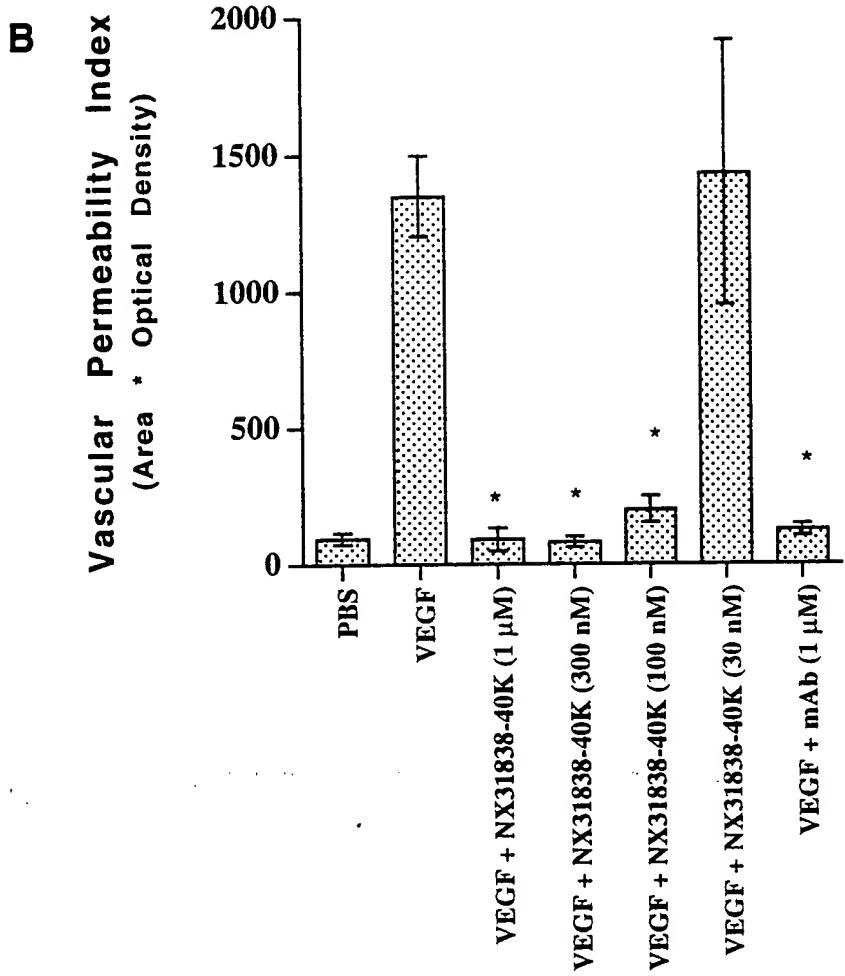


FIG. 4B

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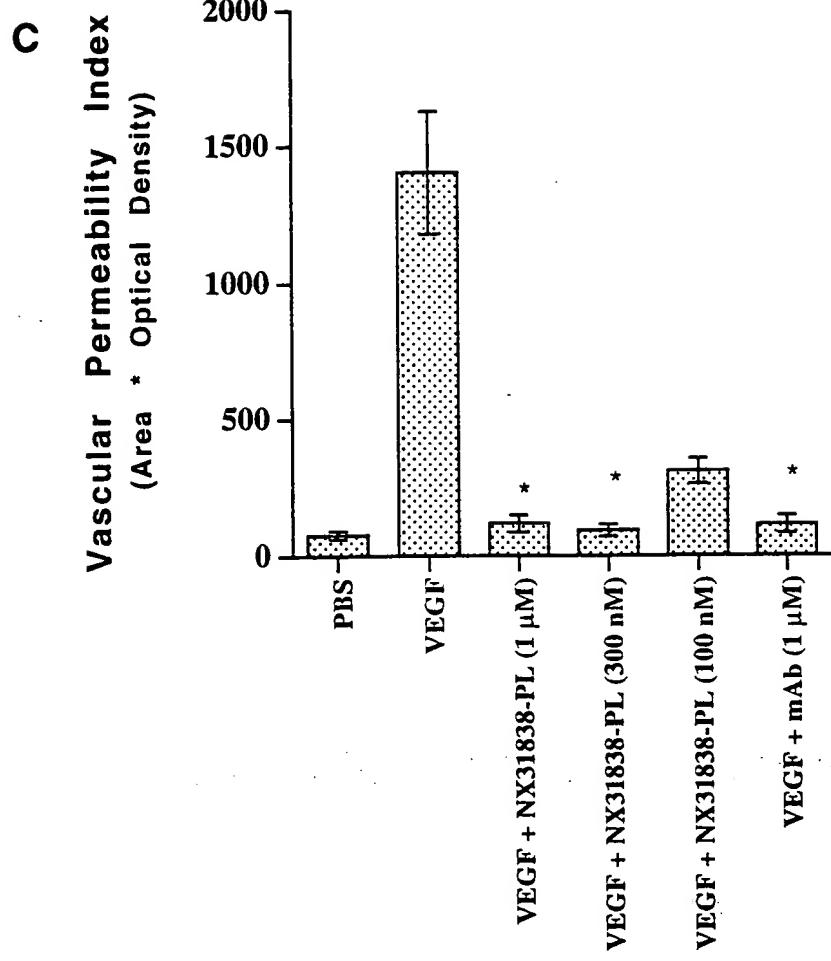


FIG. 4C

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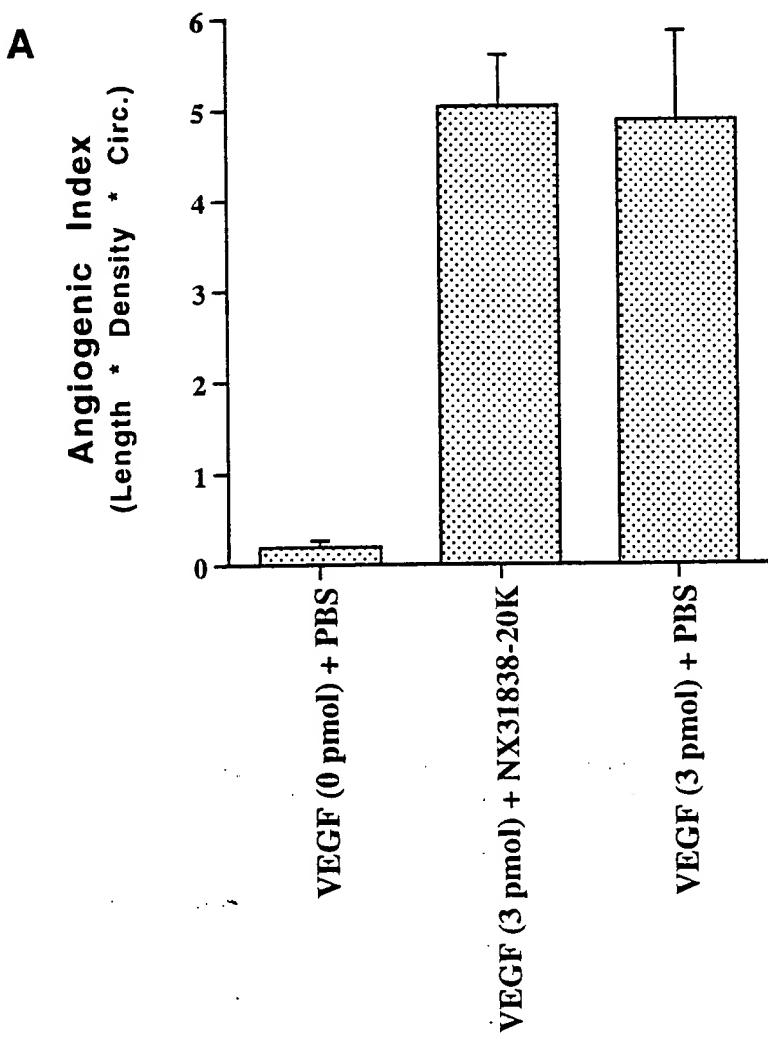


FIG. 5A

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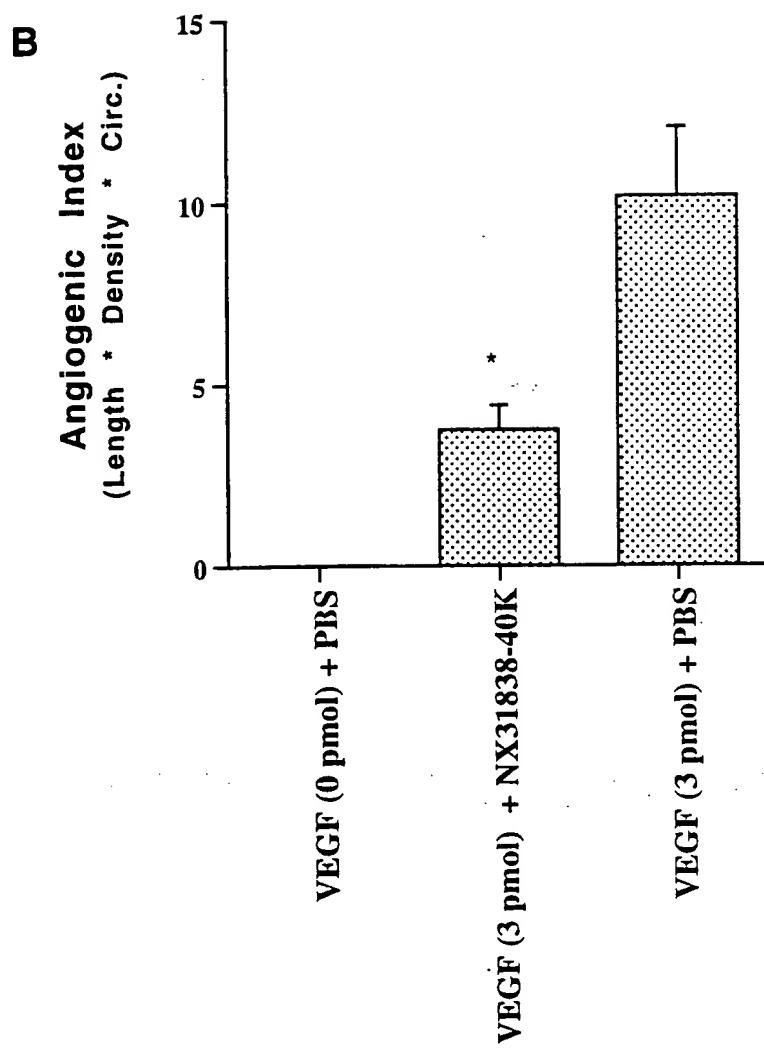


FIG. 5B

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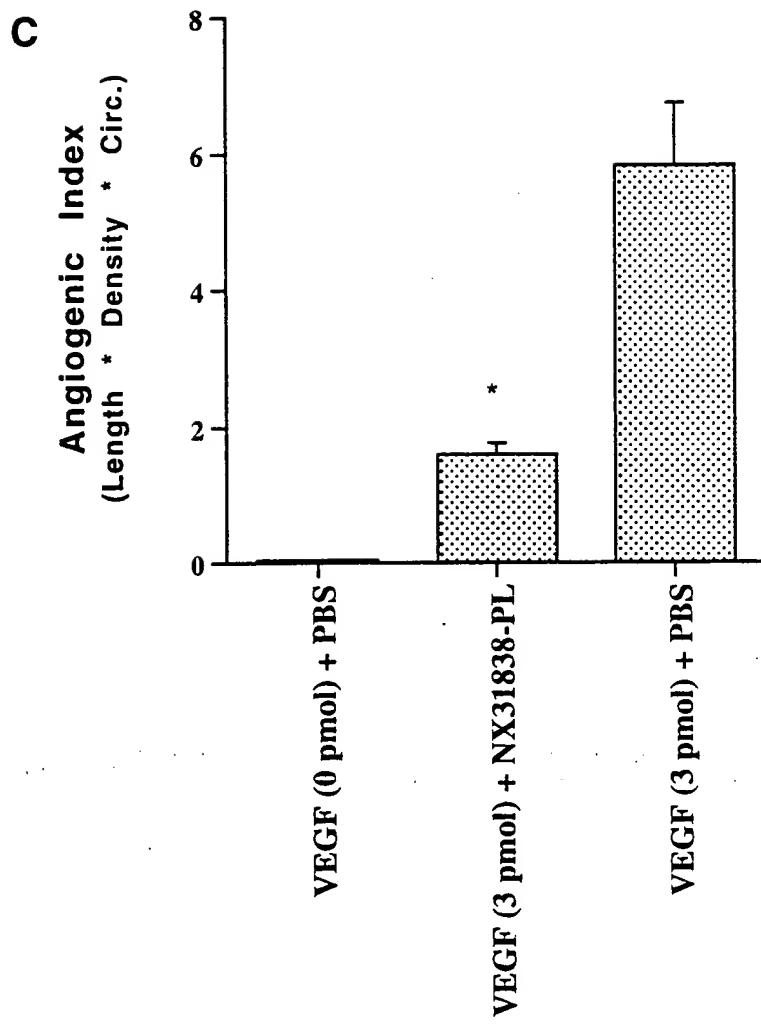


FIG. 5C

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Figure 6: Pharmacokinetic Study of Intravitreal Administration of NX31838-40mPEG in Rabbits

